

WEB PROGRAMMING LAB

3.Develop an external style sheet named as “style.css” and provide different styles for h2, h3, hr, p, div, span, time, img & a tags. Apply different CSS selectors for tags and demonstrate the significance of each.

Expt3.html

```
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>HTML Tags Example</title>
    <!-- Link to the external stylesheet -->
    <link rel="stylesheet" href="Style1.css">
</head>

<body>
    <!-- h2 tag example -->
    <h2>Welcome to My Web Page</h2>

    <!-- p tag immediately following h2 -->
    <p>This is a paragraph that follows the h2 tag, styled using the adjacent sibling selector.</p>

    <!-- hr tag example -->
    <hr>

    <!-- h3 tag example -->
    <h3>Section Title</h3>

    <!-- p tag following h3 -->
    <p>This paragraph comes after an h3 tag and is styled using the general sibling selector.</p>

    <!-- div tag with a child p and a nested span -->
    <div id="special-div">
        <p>This paragraph is a direct child of a div and is styled using the child selector.</p>
        <p>This is another paragraph inside a div.</p>
        <span>This is a span inside a div, demonstrating inline styling.</span>
    </div>
</body>
```

```

</div>

<!-- hr tag example -->
<hr>

<!-- Time tag example -->
<p>This event happened on <time datetime="2024-08-23">August 23, 2024</time>.</p>

<!-- Image tag with alt attribute -->
<p>Here is an image with a border styled using an attribute selector:</p>


<!-- Anchor tag example -->
<div>
    <p>Visit the following link for more information:</p>
    <a href="https://www.example.com" target="_blank">Click here to visit Example.com</a>
</div>
</body>
</html>

```

Style.css

```

/* Universal selector: applies to all elements */
* {
    margin: 0;
    padding: 0;
    box-sizing: border-box;
}

/* Element selectors: styles all <h2> and <h3> elements */
h2 {
    color: darkblue;
    font-size: 2.5em;
    font-family: Arial, sans-serif;
    text-align: center;
    margin-bottom: 20px;
}

h3 {
    color: darkgreen;
    font-size: 2em;
}

```

```
font-family: 'Times New Roman', Times, serif;
margin-top: 20px;
}

/* Styling horizontal rule */
hr {
    border: 0;
    height: 1px;
    background: #333;
    background-image: linear-gradient(to right, #ccc, #333, #ccc);
    margin: 30px 0;
}

/* Paragraph style */
p {
    color: #333;
    font-size: 1.1em;
    line-height: 1.6;
    margin-bottom: 15px;
}

/* Class selector: applies to elements with class "highlight" */
.highlight {
    background-color: yellow;
    font-weight: bold;
}

/* ID selector: applies to the element with id "special-div" */
#special-div {
    padding: 20px;
    background-color: #f0f0f0;
    border: 1px solid #ccc;
    border-radius: 5px;
    margin: 20px 0;
}

/* Styling <div> elements */
div {
    margin: 10px 0;
    padding: 15px;
    background-color: #e6f7ff;
    border: 1px solid #b3e0ff;
}
```

```
/* Styling <span> elements */
span {
    color: #ff5733;
    font-style: italic;
    text-decoration: underline;
}

/* Pseudo-class selector for links */
a {
    text-decoration: none;
    color: #007bff;
}

a:hover {
    text-decoration: underline;
    color: #0056b3;
}

/* Attribute selector: applies styles to elements with an 'alt' attribute */
img[alt] {
    border: 2px solid #ddd;
    padding: 5px;
    border-radius: 8px;
    max-width: 100%;
}

/* Styling <time> elements */
time {
    font-size: 0.9em;
    color: #555;
    font-weight: bold;
}

/* Descendant selector: applies styles to <a> elements within <div> elements */
div a {
    color: #dc3545;
    font-weight: bold;
}

/* Child selector: applies styles to direct <p> children of <div> elements */
div > p {
```

```
color: #28a745;
font-size: 1em;
}

/* Adjacent sibling selector: applies styles to <p> elements immediately
following an <h2> */
h2 + p {
    color: #6c757d;
    font-style: italic;
}

/* General sibling selector: applies styles to <p> elements following an <h3>
*/
h3 ~ p {
    color: #ffc107;
}
```